IN HINDSIGHT. ETCHING IN IRON III CHLORIDE IS BETTER THAN OVEN CLEANER SODIUM HYDROXIDE

IRON III CHLORIDE TAKES A LITTLE LONGER AND GOES A LITTLE DEEPER REMOVING TOOLING MARKS OR LATHE LINES ON ALUMINIUM

GIVING AN ASH GREY, WHILE OVEN CLEANER OR SODIUM HYDROXIDE GOES TO BLACK VERY QUICKLY WITHOUT THE PENETRATION THAT REMOVES LATHE LINES OF THE SPHERE TURNING OR MILLING LINES OF THE CRATERS

ALEX 26

THE REDDISH BROWN LARGER PLANET
AT THE BACK IS ETCHED ALUMINIUM
THAT I CAST WITH AN ALLOY OF
COPPER. TO MUCH COPPER AND THE
ALUMINIUM BECOMES TOO HARD.
I HAVEN'T BEEN ABLE TO REPLICATE IT *

THE FOUR PLANETS TO THE LEFT
ARE ALL BRASS WITH THE THREE
BLUE BLACK * BEING PATINATED
WITH AMMONIA. IN PATINATION, I'M
LOOKING FOR THE BLUE AND GREEN
HUES, THAT I ASSOCIATE WITH LIFE.
EVERY EXOPLANETARIUM NEEDS THAT
SOMEWHERE

THERE'S A BIT OF MAGIC AND ALCHEMY
IN PATINATION. I TRIED THE PINK
AND BLACK PLANET SEVERAL TIMES.
THE "BATH" OF AMMONIA BEING TOO
MUCH OR TOO HARSH, SO I LATHED
IT DOWN ONLY SOLDERED SOME SILVER
SOLDER AND LEFT IT.

ON THE VERY LEFT IS A COPPER PLANET
LEFT TO PATINATE WITH VINEGAR ONLY
WHICH GIVES A VERY PALE GREEN.
THOUGH COPPER ITSELF IS "GUMMY" TO
LATHE SO I PREFER BRASS

* THE PALE GREEN ONE HAD THE ISLANDS
OR CONTINENTS SILVER SOLDERED THEN
IT WAS ETCHED WITH IRON (III) CHLORIDE

ALEX 26

Depletion gilding but with copper...

THE BACK IS

T I CAST LIT

PEN. The MUCH

MINIMUM BEZ

ALL THE PLANETS
EXCEPT THE NORDIC
GOLD VERSIONS. HAVE
BEEN CLEAR COATED
FIRST GLOSS, LATER I
JUDGED MATT TO BE
BETTER.

THE 2.5 MM MOONS
AREN'T CLEAR COATED
AS THEY MAY STILL NEED
TO BE SOLDERED ON...

ALEX H

FRONT

NOTE ON SPARE PLANETS

THERE ARE ABOUT 215 SPARE PLANETS FOR THE ORRERIES. NOT INCLUDING THE 2.5 MM MOONS, PLASTIC SPHERES (SUNS INCL) OR LARGE PETANQUE PLANETS FOR TELLURIONS

AS, ONLY LATER DID I CAST PLANETS, ETCH MOONS, PATINATE "SEAS" SOLDER "ISLANDS" OR MELT ZAMAC FOR COPPER "LAVA". SO MANY WILL BE USED TO IMPROVE THE EXISTING ORRERIES "EXOPLANETARIUMS".

I HAVE FOUR COMPLETE SETS OF SWEDA TUBES SO FOUR ORRERIES ARE STILL POSSIBLE

THOUGH I APPRECIATE THE "ROTOR" AND VARIAC HOUSING ORRERIES SOME OF THE ANGULAR WELDED HOUSING ARE TOO "CHUNKY" ESPECIALLY ON THE FIVE AND SIX PLANETS VERSION.
A REVISION OR IMPROVEMENT IS CONSIDERED.

ALEX 26

01:18 60%

41,097,413,172,890
÷(1,391,400
÷0.00004267)

1,260.3324853294

If the Sun was shrunk to the size of a golf ball, 1260 kilometers would still be the distance to the nearest visible (binary) star system, Alpha Centauri.

Proxima Centauri, part of this system would be the closest star at 1232 kilometers but isn't visible to the naked eye .

C ( ) % ÷
7 8 9 ×
4 5 6 −
1 2 3 +
+/− 0 . =

14:53 72%

4.2465

×9,460,730,472,580.8

÷(1,391,400

÷0.00004267)

1,232.0446360385

If the Sun was shrunk to the size of a golf ball, Proxima Centauri would still be 1232 kilometres away,
but be the size of a small pea.

Proxima Centauri is invisible to the naked eye. Alpha Centauri, which is part of this trinary system, would be 1260 kilometres away on this scale.

C ( ) % ÷
7 8 9 ×
4 5 6 −
1 2 3 +
+/− 0 . =